Time and Elapsed Time

Elapsed time is just how long something took. You can count up on a clock (or number line), or just subtract. Either method works — pick the one that feels easier for a given problem.

Conversion	Why
1 hour = 60 minutes	by definition
1 minute = 60 seconds	by definition

Key Concepts

1. Elapsed time is the time from a start to an end.

2. Counting up on a clock or number line is the easiest way for many problems. Start at the earlier time and count forward in chunks (often 5, 10, or 15 minutes at a time).

3. Subtracting works too, especially when the times are on the same hour: 3:40 − 3:15 = 25 minutes.

4. Conversion: 60 minutes in an hour, 60 seconds in a minute. Multiply or divide by 60 as needed.

Worked Examples

① What is the elapsed time from 8:15 a.m. to 9:00 a.m.?

Count up from 8:15: add 15 minutes to reach 8:30, then 30 more to reach 9:00. Total: 15 + 30 = 45 minutes.

Answer: 45 *minutes*

② A movie starts at 3:10 p.m. and lasts 1 hour 25 minutes. When does it end?

Add the hour first: 3:10 → 4:10. Then add 25 minutes: 4:10 → 4:35. The movie ends at 4:35 p.m.

Answer: 4:35 *p.m.*

③ How many minutes are in 2 hours?

Each hour has 60 minutes. So 2 hours = 2 × 60 = 120 minutes.

Answer: 120 *minutes*

Practice Problems

Find elapsed time, end time, or convert.

1. From 10:00 to 10:45 = ? min _____

2. From 1:20 to 2:00 = ? min _____

3. Start 4:15, add 30 min = ? _____

4. Start 7:50, add 25 min = ? _____

5. 3 hr = ? min _____

6. 120 min = ? hr _____

7. From 9:10 to 11:10 = ? hr _____

8. Start 6:30, add 1 hr 15 min = ? _____

9. End 5:00, elapsed 45 min, start = ? _____

10. From 8:25 to 9:10 = ? min _____

11. Start 11:40, add 50 min = ?_____ **12.** 90 min = ? hr ? min _____

Study Tips

- ☞ Draw a number line of time. Mark the start and end, then jump forward in friendly chunks (10, 15, 30, 60 minutes).
- ☞ When you cross an hour, break the time into two parts: minutes to the next hour, then full hours, then leftover minutes.
- ☞ To convert minutes to hours and minutes, divide by 60: $90 \div 60 = 1$ with remainder 30, so 90 min = 1 hr 30 min.

✍ Word Problems

1. Recess starts at 11:45 a.m. and lasts 20 minutes. What time does it end?

Answer: _____

2. Ben left home at 8:10 a.m. and arrived at school at 8:35 a.m. How long was his walk?

Answer: _____

Answer Key — with Friendly Explanations

Practice Problems

1. Same hour, $45 - 0 = 45$ minutes.

Answer: 45 *min*

2. Count from 1:20 to 1:60 (which is 2:00): 40 minutes.

Answer: 40 *min*

3. $4{:}15 + 30 = 4{:}45$.

Answer: 4:45

4. $7{:}50 + 10 = 8{:}00$, then $+15 = 8{:}15$.

Answer: 8:15

5. $3 \times 60 = 180$ min.

Answer: 180 *min*

6. $120 \div 60 = 2$ hours.

Answer: 2 *hr*

7. Same minute, $11{:}10 - 9{:}10 = 2$ hours.

Answer: 2 *hr*

8. $6{:}30 + 1$ hr $= 7{:}30$, $+15 = 7{:}45$.

Answer: 7:45

9. $5{:}00 - 45$ min: go back 45 min from 5:00 to 4:15.

Answer: 4:15

10. $8{:}25 \to 9{:}00$ is 35 min, then $+10 = 45$ min total.

Answer: 45 *min*

11. $11{:}40 + 20 = 12{:}00$, then $+30 = 12{:}30$.

Answer: 12:30

12. $90 \div 60 = 1$ rem 30.

Answer: 1 *hr* 30 *min*

Word Problems

1. $11{:}45 + 15 = 12{:}00$; $+5 = 12{:}05$.

Answer: 12:05 *p.m.*

2. Same hour, $35 - 10 = 25$ min.

Answer: 25 *minutes*

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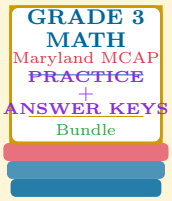

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